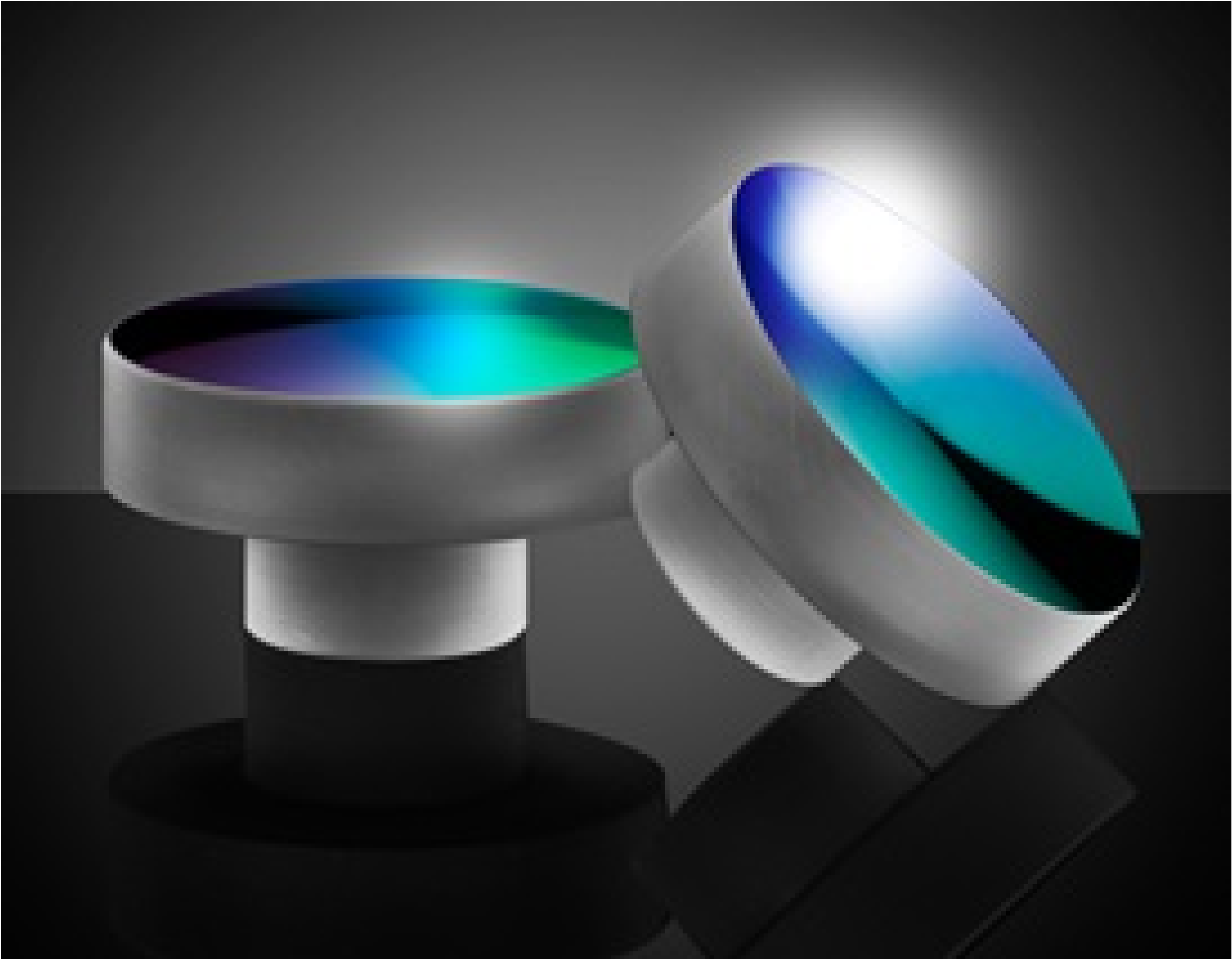


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TECHSPEC®

25mm Dia., 355nm, Stemmed Laser Mirror



Stock #17-559

CLEARANCE

CONTACT US

-

1

+

S\$176⁴⁰

ADD TO CART

Volume Pricing	
Qty 1+	S\$176.40 each
Need More?	Request Quote

Product Downloads

General	
Stemmed Mirror	Type:
#58-853	Compatible Kinematic Mount:

Physical & Mechanical Properties	
13.00 ±0.20	Thickness (mm):

22.50	Clear Aperture CA (mm):
25.00 +0.00/-0.10	Diameter (mm):
90.00	Clear Aperture (%):
Commercial Polish	Back Surface:
Ground, protective bevel as needed	Edges:
12.50 +0.00/-0.10	Stem Diameter (mm):
6.50 ±0.20	Stem Length (mm):
Optical Properties	
Fused Silica (Corning 7980)	Substrate: □
10-5	Surface Quality:
Laser Mirror (355nm)	Coating:
355	Design Wavelength DWL (nm):
λ/10	Surface Flatness (P-V):
R _{abs} >99.8% @ 355nm	Coating Specification:
Dielectric	Coating Type:
7.5J/cm² @ 20ns, 20Hz @ 355nm	Damage Threshold, Reference: □
7.5J/cm² @ 20ns, 20Hz @ 355nm	Damage Threshold, Pulsed:
Regulatory Compliance	
View	Certificate of Conformance:

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

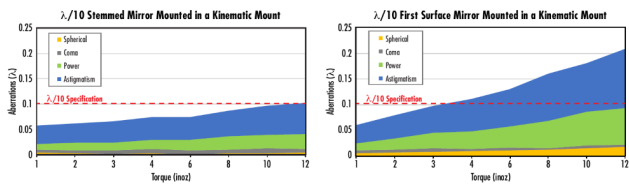
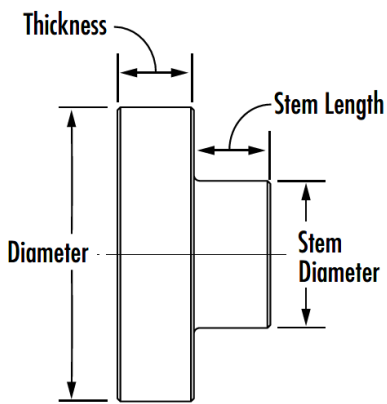
Product Details

- Stemmed Design Reduces Stress on Mirror Surface when Mounted by Stem
- >99% Reflectivity at Standard Laser Wavelengths
- 10-5 Surface Quality for Reduced Scatter in Sensitive Laser Applications
- TECHSPEC® [Broadband Dielectric](#) and [Metallic Coated](#) Stemmed Mirrors Also Available

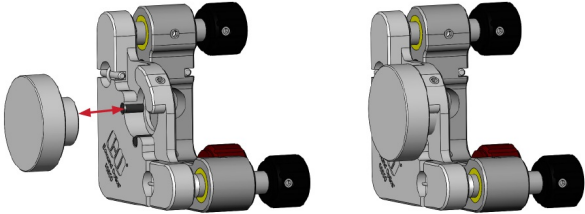
TECHSPEC® Stemmed Laser Mirrors provide low mounting stress on highly reflective, laser line mirrors. Designed to be mounted to TECHSPEC® [Kinematic Circular Optical Mounts](#) and [E-Series Kinematic Optical Mirror Mounts](#), all contact between the mirror and the kinematic mount is through the stem, reducing the stress imparted on the optical surface of the mirror. Due to their stress-reducing design and monolithic fused silica construction, these mirrors provide excellent thermal stability and improved surfaced flatness compared to traditionally mounted λ/10 flat mirrors. TECHSPEC® Stemmed Laser Mirrors are available at common laser wavelengths, making them ideal for laboratories and integration in laser systems.

Note: Contact us for custom options.

Technical Information



A comparison of the aberrations introduced to a $\lambda/10$ Stemmed Mirror and a $\lambda/10$ First Surface Mirror when mounted in a kinematic mount. As shown, a Stemmed Mirror stays within $\lambda/10$ specification up to 12 in-oz of torque ("hand-tight") while a First Surface Mirror becomes out of specification with a surface flatness of $\lambda/5$.



Stemmed Mirrors are mounted to kinematic mounts by a stem on their back surface, resulting in no contact with the edges of the mirror surface.